Claim Amendments

 (Currently amended) A method of forming a powder metal material, the method comprising:

compressing at least a portion of an iron-containing metallurgical powder in a die at no greater than 20 tsi to provide a green compact, wherein the metallurgical powder comprises sponge iron and is substantially free of internal lubricant; and sintering the compact.

- (Original) The method of claim 1, wherein the sponge iron includes substantially all of the iron in the metallurgical powder.
- (Original) The method of claim 1, wherein the metallurgical powder comprises at least 10 up to 50 weight percent sponge iron.
- (Original) The method of claim 1, wherein the metallurgical powder further comprises at least one of a pure atomized iron powder and an atomized iron-containing powder.
- (Original) The method of any of claims 1 and 4, wherein sintering the green compact comprises induction sintering the green compact.

- 6. (Canceled)
- 7. (Original) The method of claim 1, wherein compressing at least a portion of the metallurgical powder comprises compressing at least a portion of the metallurgical powder in a self-lubricating die.
- (Original) The method of claim 1, wherein compressing the metallurgical powder comprises compressing the metallurgical powder at a pressure in the range of 5 tsi up to 20 tsi.
- (Original) The method of claim 1, wherein the green compact has a green strength of at least 1000 psi.
- (Original) The method of claim 1, wherein the green compact has a density of at least 4.0 g/cc.
- 11. (Original) The method of claim 1, further comprising: hot forming the sintered compact.

12-51. (Cancelled)

52. (Currently amended) A method of forming a powder metal material, the method comprising:

compressing at least a portion of an iron-containing metallurgical powder including 15 up to 25 weight percent sponge iron and no more than 0.3 weight percent substantially free of internal lubricant in a die at less than 20 tsl to provide a green compact having a green strength of at least 1000 psi; and

sintering the green compact.

53. (Previously presented) The method of claim 52, wherein sintering the green compact comprises induction sintering the green compact.

54-58. (Canceled)

- 59. (Currently amended) The method of claim 5852, wherein the green compact has a density of at least 4.0 g/cc.
- 60. (New) The method of claim 1, wherein compressing at least a portion of an iron-containing metallurgical powder comprises compressing the powder in an unheated die.
- 61. (New) The method of claim 52, wherein compressing at least a portion of an iron-containing metallurgical powder comprises compressing the powder in an unheated die.

62. (New) A method of forming a powder metal material, the method comprising:

compressing at least a portion of an iron-containing metallurgical powder in an unheated die at no greater than 20 tsi to provide a green compact, wherein the metallurgical powder comprises sponge iron; and sintering the compact.

- 63. (New) The method of claim 62, wherein the sponge iron includes substantially all of the iron in the metallurgical powder.
- 64. (New) The method of claim 62, wherein the metallurgical powder comprises at least 10 up to 50 weight percent sponge iron.
- 65. (New) The method of claim 62, wherein sintering the green compact comprises induction sintering the green compact.
- 66. (New) The method of claim 62, wherein compressing the metallurgical powder comprises compressing the metallurgical powder at a pressure in the range of 5 tsi up to 20 tsi.
- 67. (New) The method of claim 62, further comprising: hot forming the sintered compact.